

## Dräger UCF 9000 Thermal Imaging Camera

### The compact camera that gets the big picture

From complex firefighting operations that require intrinsic safety, to the documentation of training, the UCF 9000 provides high resolution images that offer more detail and more information. The UCF 9000 is everything you expect from a Dräger thermal imaging camera - and more.



D-62970-2012

#### GOING IN PREPARED

It's reassuring to know that the camera that you're carrying is safe to use when entering into a hazardous area. The Dräger UCF 9000 thermal imaging camera is intrinsically safe (UL Class 1, Division 2) and provides peace of mind and increased ability to focus on the mission. The UCF 9000 comes equipped with a host of innovative features designed to allow firefighters to use this camera for multiple firefighting applications. This ultra high resolution camera is designed to be fully operated using only one hand. The result is a high performance thermal imaging camera that is rugged, innovative, and easy to use. With Dräger, "Going in Prepared" means having the best technology and equipment available to help first responders meet the multiple challenges they face.

#### SEE EVERYTHING CLEARER AND LARGER

The UCF 9000 offers 44% more detail than other firefighting thermal imaging cameras and with a wide field of view lets the user see more. In areas where visibility is extremely limited, the UCF 9000

provides an image that is ultra clear giving users more information to make better tactical decisions. Regardless of the environment the camera is in, the UCF 9000 display brightness automatically adjusts to give the firefighter a clear image to view. An extended dynamic range makes it possible to clearly detect objects and people even next to extreme heat. An ultrafast shutter allows users to have consistent images and a clear view at all times. The UCF 9000 has a 2X and 4X zoom that gives users the ability to get a closer look at hard to reach areas.

#### ONE HANDED OPERATION FOR EASE OF USE

The compact, lightweight design of the UCF 9000 will allow users to select functions with just a thumb and index finger. When it comes to carrying the UCF 9000, it is nice to have several options. A sturdy detachable "crawling plate" allows the user to brace the camera on the ground, providing an additional movement option. The UCF 9000 offers various carrying options for optimal comfort and portability.



D-62971-2012

Dräger UCF 9000



D-32294-2011

384 X 288 resolution color screen



### AUTOMATICALLY CONTINUED RECORDING

Just like the UCF 7000, The UCF 9000 has a “black box” that automatically records two hours of video. Even when the memory card is full, the camera simply records over the beginning of the memory card. All video and pictures can be downloaded to an external device. An additional feature comes with the UCF 9000 camera allowing users to share that video instantly in the cameras display.

### MORE MODES FOR MORE TASKS

The UCF 9000 offers seven modes in addition to the standard thermal mode that provides the best image for specific firefighting applications.

- **Fire Mode:** Concentrates more detail on the hotter objects for extreme heat situations
- **Person Mode:** Concentrates more detail on the cooler objects to clearly identify victims

- **Thermal Scan:** Highlights a set temperature threshold for smell of smoke calls and overhaul
- **Hazmat Mode:** Color area that clearly shows liquid level and leak detection
- **Scan Plus:** Highlights a set temperature using real images for Hazmat and overhaul
- **Normal image:** Color camera that can be used for training or documentation
- **Customizable Color Palette:** Choose from five different modes that will fit your individual needs

### EQUIPPED WITH STANDARD UCF TIC II FUNCTIONS

Just like the UCF 7000, The UCF 9000 has a laser pointer to mark heat sources and point out the fill level of tanks. The “snapshot” function provides a temporary freeze-frame thermal image which is then viewed on the display for others to see. This feature makes it possible to see hard to reach areas with freedom of movement or assess particularly difficult areas.

### EXTREMELY ROBUST

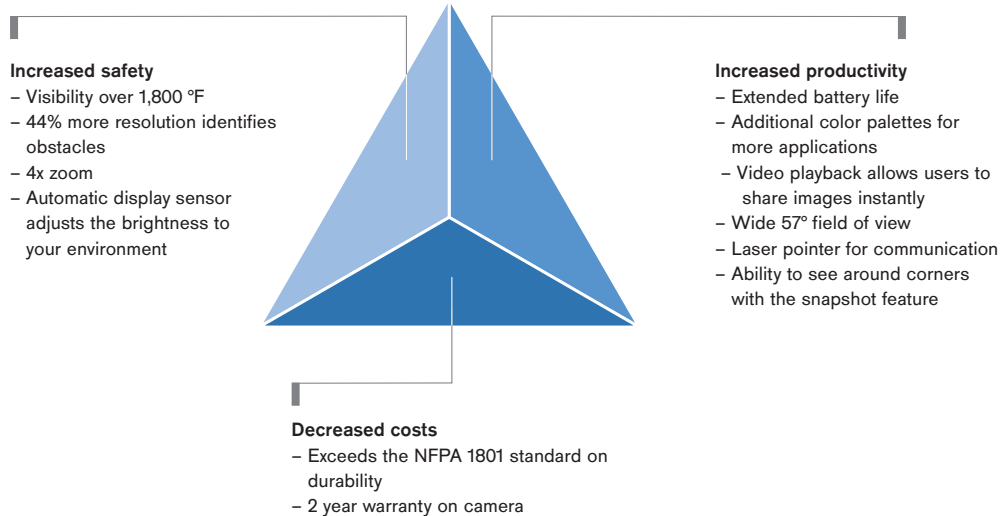
The UCF 9000 is robust and rugged for extended use in the most hostile environments. With an extremely durable housing, the UCF 9000 is heat resistant, withstands mechanical stresses with ease, has a high protection classification IP 67 and is resistant to water, dust and other contaminants typically encountered during emergency response situations. Modern lithium-ion battery technology provides the UCF 9000 with up to four hours of operating time, giving users peace of mind during extended operation. Battery life can be extended by 50% when the automatic stand-by mode is activated, which wakes up the camera by simply grabbing the handle.

### STANDARD USB INTERFACE

The UCF 9000 is supplied with a standard USB 2.0 interface and PC software, making it possible to configure the camera and transfer thermal videos and images directly to a PC.

## YOUR BENEFITS AT A GLANCE

The high performance Draeger UCF 9000 thermal imaging camera helps the operation go faster, safer, and more efficiently



## TECHNICAL DATA

### Dräger UCF 9000

Dimensions of camera (W x H x D)	125 x 280 x 110 mm (4.9 x 11 x 4.3 in.)
Weight	1.4 kg (3 lbs) incl. battery

### Display

Technology	Liquid crystal display (LCD)
Size (diagonal)	9 cm (3.5 inches)
Application modes	Standard, Fire, Persons, Thermal Scan, Outdoors, Hazardous Goods, Scan PLUS, Normal Image, User defined 1

### Housing

Protection cover	Rubber material EPDM
Carrying loops	High-temperature-resistant material
Housing material	High-temperature-resistant plastic
Protection class	IP 67

### Infrared specifications

Type of sensor	a-Si Microbolometer Array
Resolution	384 x 288 Pixel
IR spectral	7 to 14 µm
Temperature sensitivity	Typically 0.035°C (0.063 °F)
Picture frequency	50 Hz

### Optics

Material	Germanium
Focus	1 m to infinity
Field of view	Horizontal: 57° Vertical: 41° Diagonal: 74°

### Operation

Operation time (at 73 °F)	
with battery	Typically 4 hours
Operation time (at 73 °F)	
with alkaline power pack	Typically 2 hours
Temperature measurement	Digital temperature display: -40 °C ... 1,000 °C (-40 °F ... 1,832 °F)
Operating temperature	40 °C to 85 °C (-40 °F ... 185 °F) (inside camera), 150 °C (300 °F) for 20 min, 260 °C (500 °F) for 10 min
Battery technology	Rechargeable lithium ion batteries
Battery status display	Precise 4-level battery indicator
Approvals	The Dräger UCF 9000 meets the following explosion protection regulations: IEC 60079-0:2007 IEC 60079-11:2006 EN 60079-0:2009 EN 60079-11:2007 ANSI/ISA 12.12.01 CAN/CSA E60079-0 CAN/CSA E60079-11
	It is classified as follows: for Europe: I M2 / II 2G, Ex ib I Mb / Ex ib IIC T4 Gb for Australia: Ex ib IIC T4 Gb for the USA and Canada UL: Class I, Div. 2, Groups A, B, C, D, Class I, Zone 1, Ex ib IIC T4 Flame test according to EN137:2006

## ORDERING INFORMATION

### Dräger UCF 9000

Dräger UCF 9000 (50 Hz)	83 21 240
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### Accessories

Transport case	83 21 099
Neck strap	83 23 031
Retractable lanyard	83 23 032
Hand support loop	83 23 033
Li-ion battery (with Ex-approval)	83 23 075
Battery charger	83 21 247
Power supply for charger	83 16 994
Vehicle installation kit (bracket and 12-30 V-cable)	83 21 253
Suction tripod, e. g. to mount on truck roof	83 23 070
Tripod	83 21 254
Universal clamp	83 21 259
12 V-adapter for operations with tripod	In preparation
12 V-power supply for operations with tripod	83 16 994

### Included in scope of delivery

Thermal imaging camera with integrated laser pointer, "snapshot function", 2x and 4x digital zoom, 8 additional application modes in addition to the standard mode ("application switch") including thermal scan function (also real image) and image and sound storage as well as direct display function, 1 battery and 1 charger. Also includes USB cable (camera standard: USB 2.0 interface), attachable crawling plate, PC-software, Instructions for Use and brief instruction.



Transport case



Battery charger



### CORPORATE HEADQUARTERS

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